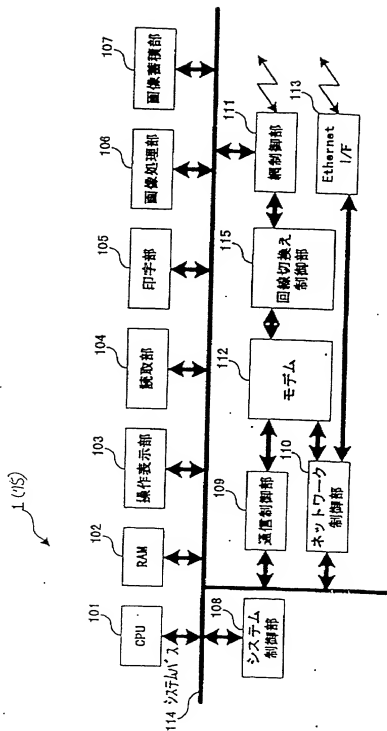


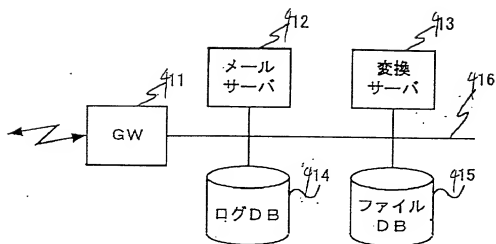


Fig. 2



- 103 OPERATION AND DISPLAY SECTION
- 104 READ SECTION
- 105 PRINT SECTION
- 106 IMAGE PROCESSING SECTION
- 107 IMAGE STORAGE SECTION
- 108 SYSTEM CONTROL SECTION
- 109 COMMUNICATION CONTROL SECTION
- 110 NETWORK CONTROL SECTION
- 111 NET CONTROL SECTION
- 112 MODEM
- 114 SYSTEM BUS
- 115 LINE SWITCH CONTROL SECTION

Fig. 3



- 412 MAIL SERVER
- 413 CONVERSION SERVER
- 414 LOG DB
- 415 FILE DB

Fig. 4

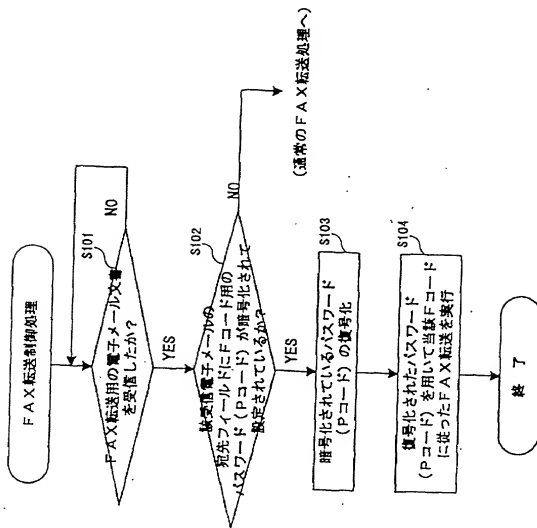


FIG. 4

FAX TRANSFER CONTROL PROCESSING

S101 ELECTRONIC MAIL DOCUMENT FOR FAX TRANSFER RECEIVED?

S102 IS PASSWORD (P CODE) FOR F CODE ENCRYPTED AND SET IN DESTINATION FIELD OF RECEIVED ELECTRONIC MAIL?

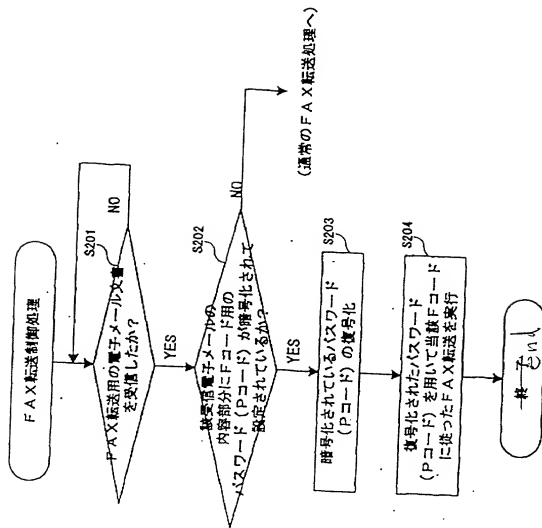
(TO NORMAL FAX TRANSFER PROCESSING)

S103 DECRYPT ENCRYPTED PASSWORD (P CODE)

S104 USING DECRYPTED PASSWORD (P CODE), EXECUTE FAX TRANSFER IN ACCORDANCE WITH F CODE

END

Fig. 5



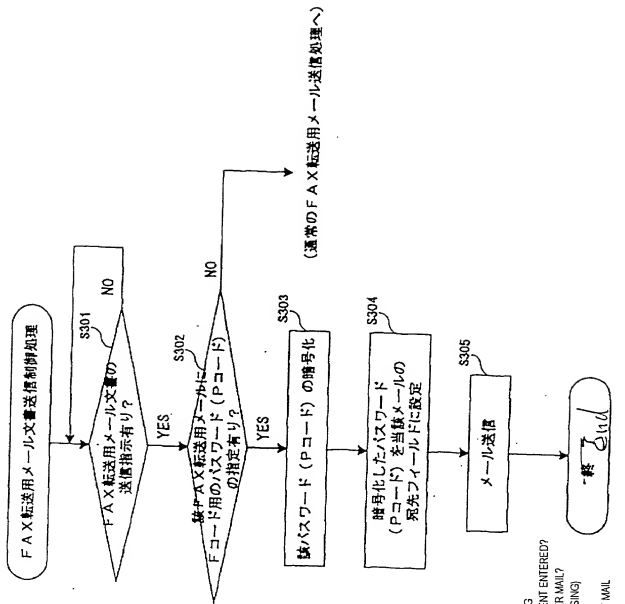
FAX TRANSFER CONTROL PROCESSING

S201 ELECTRONIC MAIL DOCUMENT FOR FAX TRANSFER RECEIVED?

S202 IS PASSWORD (P CODE) FOR F CODE ENCRYPTED AND SET IN MAIN BODY OF RECEIVED ELECTRONIC MAIL?  
(TO NORMAL FAX TRANSFER PROCESSING)

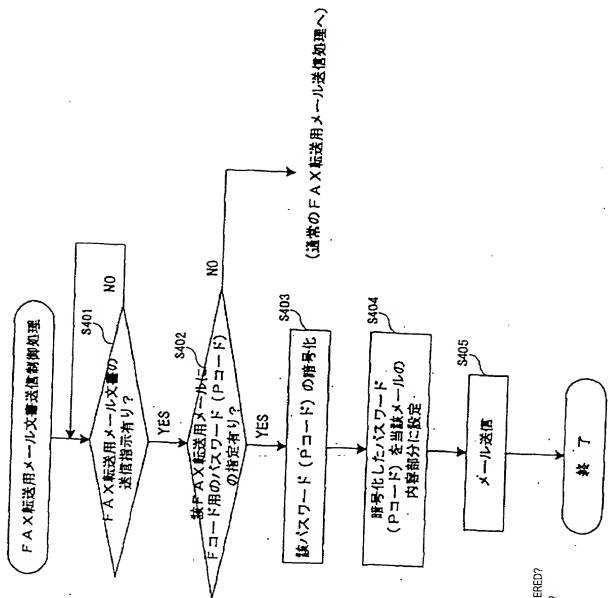
S203 DECRYPT ENCRYPTED PASSWORD (P CODE)

S204 USING DECRYPTED PASSWORD (P CODE), EXECUTE FAX TRANSFER IN ACCORDANCE WITH F CODE



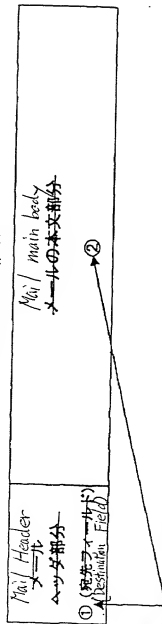
FAX TRANSFER MAIL DOCUMENT TRANSMISSION CONTROL PROCESSING  
 S301 INSTRUCTION FOR TRANSMITTING FAX TRANSFER MAIL DOCUMENT ENTERED?  
 S302 IS PASSWORD (P CODE) FOR F CODE SPECIFIED IN FAX TRANSFER MAIL?  
 (TO NORMAL FAX TRANSFER MAIL TRANSMISSION PROCESSING)  
 S303 ENCRYPT PASSWORD (P CODE)  
 S304 SET ENCRYPTED PASSWORD (P CODE) IN DESTINATION FIELD OF MAIL  
 S305 TRANSMIT MAIL

Fig.



FAX TRANSFER MAIL DOCUMENT TRANSMISSION CONTROL PROCESSING  
 S401 INSTRUCTION FOR TRANSMITTING FAX TRANSFER MAIL DOCUMENT ENTERED?  
 S402 IS PASSWORD (P CODE) FOR F CODE SPECIFIED IN FAX TRANSFER MAIL?  
 (TO NORMAL FAX TRANSFER MAIL TRANSMISSION PROCESSING)  
 S403 ENCRYPT PASSWORD (P CODE)  
 S404 SET ENCRYPTED PASSWORD (P CODE) IN MAIN BODY OF MAIL  
 S405 TRANSMIT MAIL

Fig. 8

Mail data format  
メーラデータの構成

- ① (宛先フィールド) 若しくは② (メーラ本文中) のいずれかに  
暗号化したパスワード用ハッシュ (パスワード) を挿入

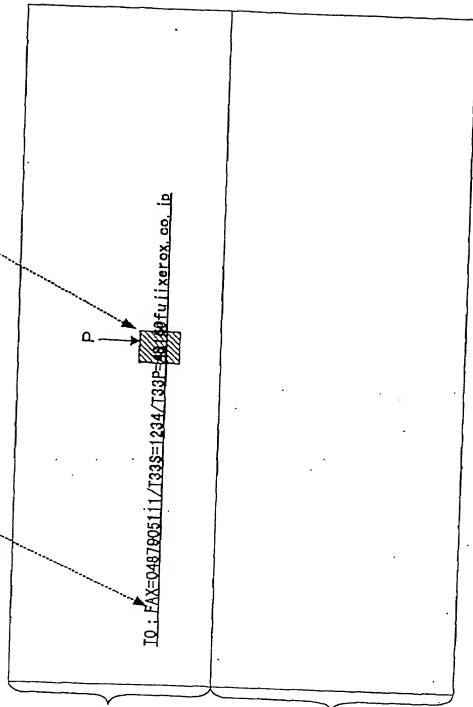
Insert encrypted password for Pcode into either ① or ②



0987672.14501

Fig. 9

メールヘッダ部分に設定する場合の例  
Example of setting P code in Mail Header.  
暗号化されたP code  
A 宛先フィールド  
Destination Field.



Mail Header  
メールのヘッダ部分

Mail main body  
メールの本文  
(内容部分)  
(contents portion)

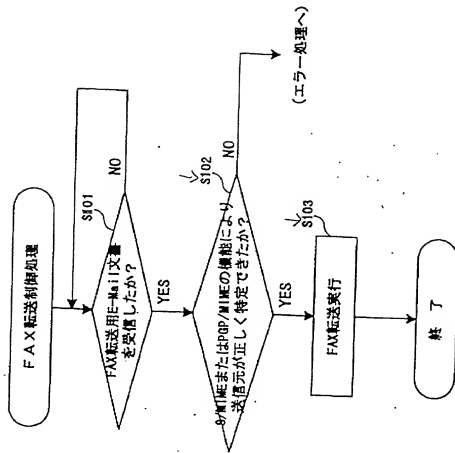
Fig. 10

102a

102a-1 短縮番号 (No.)	102a-2 相手名 Associated Name	102a-3 一先情報 (電話番号/471-142) Destination Information (Tel No./E-mail address)
1	富士太郎 Taro Fuji	03-****-1234
2	富士花子 Hanaka Fuji	F.Hanako@fujixerox.co.jp
.....	.....	.....
N	富士一郎 Ichiro Fuji	03-****-5878

Abbreviated No.

Fig. 11



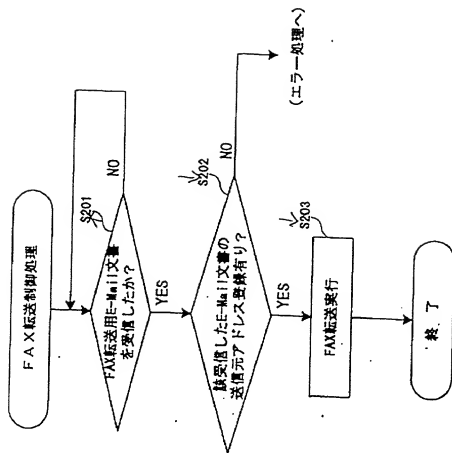
FAX TRANSFER CONTROL PROCESSING

S101 EMAIL DOCUMENT FOR FAX TRANSFER RECEIVED?

S102 CAN TRANSMISSION SOURCE BE CORRECTLY IDENTIFIED BASED ON FUNCTION OF S/MIME OR POP/IMAP?  
(TO ERROR HANDLING)

S103 EXECUTE FAX TRANSFER

Fig. 12



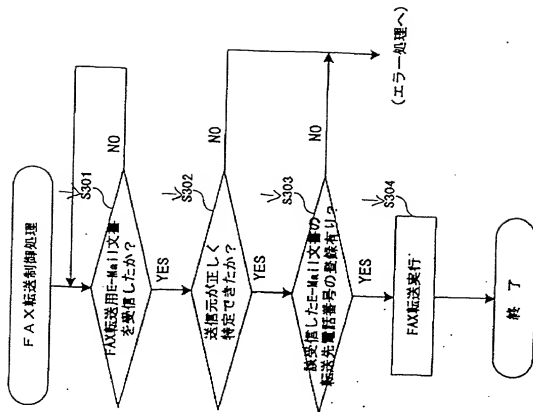
FAX TRANSFER CONTROL PROCESSING

S1201 E-MAIL DOCUMENT FOR FAX TRANSFER RECEIVED?

S1202 TRANSMISSION SOURCE ADDRESS OF RECEIVED E-MAIL DOCUMENT REGISTERED?  
(TO ERROR HANDLING)

S1203 EXECUTE FAX TRANSFER

Fig. 13



FAX TRANSFER CONTROL PROCESSING

S1301 E-MAIL DOCUMENT FOR FAX TRANSFER RECEIVED?

S1302 CAN TRANSMISSION SOURCE BE CORRECTLY IDENTIFIED?

S1303 TRANSFER DESTINATION TELEPHONE NUMBER OF RECEIVED E-MAIL DOCUMENT REGISTERED?

(TO ERROR HANDLING)

S1203 EXECUTE FAX TRANSFER

Fig. 14

<REASON WHY FACSIMILE TRANSFER IS REFUSED>  
STORAGE MEMORY IS INSUFFICIENT.

< Mail Header >

Date: Fri. 8 DEC 2000 11:37:15 +0900 (JST)

From: watashi@ifax.co.jp

To: anata@ifax.co.jp

Cc:

Subject: Document Distribution

< Mail body  
~~\*\*\*\*\*~~ >

Attached is a document used at a meeting  
Starting from 9:30 on December 11 (Mon).

< attached file.  
~~\*\*\*\*\*~~ >

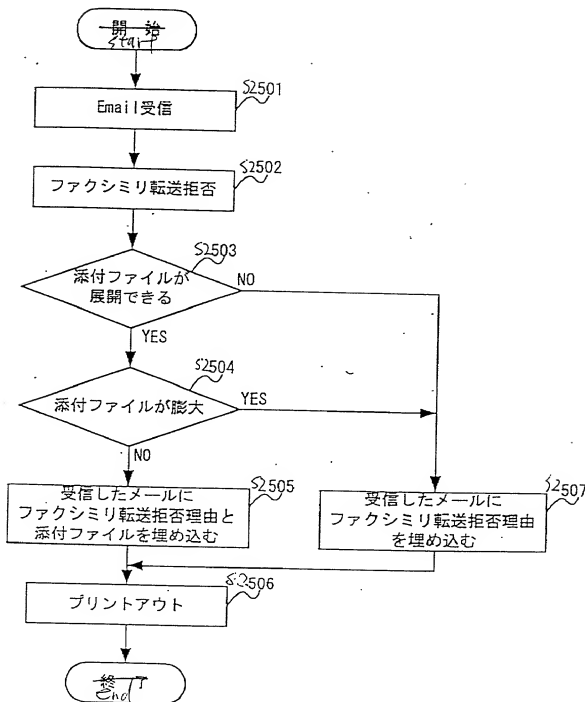
Invention Proposal

Invention title: Internet Facsimile

Inventor :

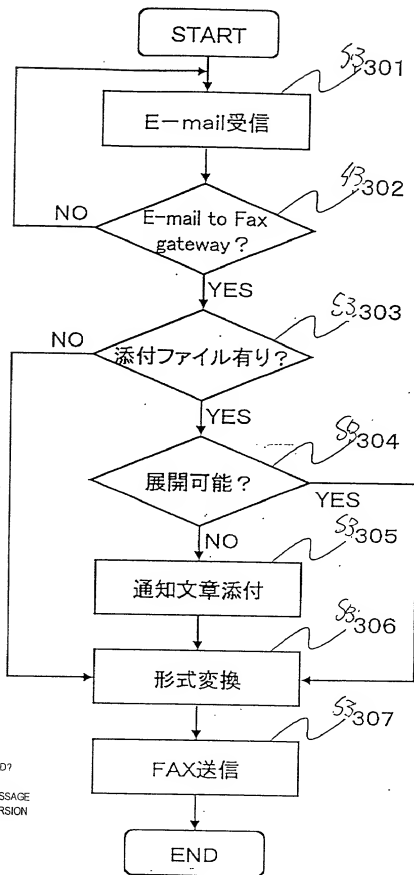
09987672.111501

Fig.15



- S2501 RECEIVE E-MAIL  
 S2502 REFUSE FACSIMILE TRANSFER  
 S2503 CAN ATTACHED FILE BE EXPANDED?  
 S2504 IS ATTACHED FILE ENORMOUS?  
 S2505 EMBED REASON WHY FACSIMILE TRANSFER IS REFUSED AND ATTACHED FILE IN RECEIVED E-MAIL  
 S2506 EMBED REASON WHY FACSIMILE TRANSFER IS REFUSED IN RECEIVED E-MAIL  
 S2507 PRINT OUT

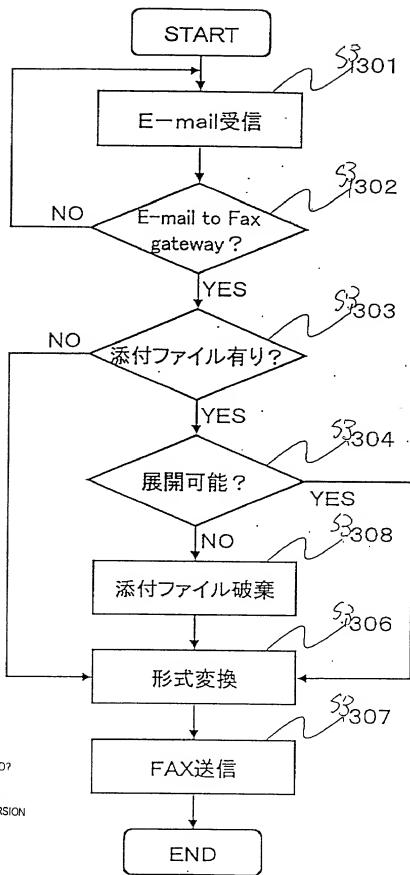
Fig. 16



S3301 RECEIVE E-MAIL  
 S3302 E-MAIL TO FAX GATEWAY?  
 S3303 ATTACHED FILE CONTAINED?  
 S3304 EXPANDABLE?  
 S3305 ATTACH NOTIFICATION MESSAGE  
 S3306 EXECUTE FORMAT CONVERSION  
 S3307 TRANSMIT BY FAX



Fig. 17



S3301 RECEIVE E-MAIL  
 S3302 E-MAIL TO FAX GATEWAY?  
 S3303 ATTACHED FILE CONTAINED?  
 S3304 EXPANDABLE?  
 S3306 DISCARD ATTACHED FILE  
 S3306 EXECUTE FORMAT CONVERSION  
 S3307 TRANSMIT BY FAX

Fig. 18

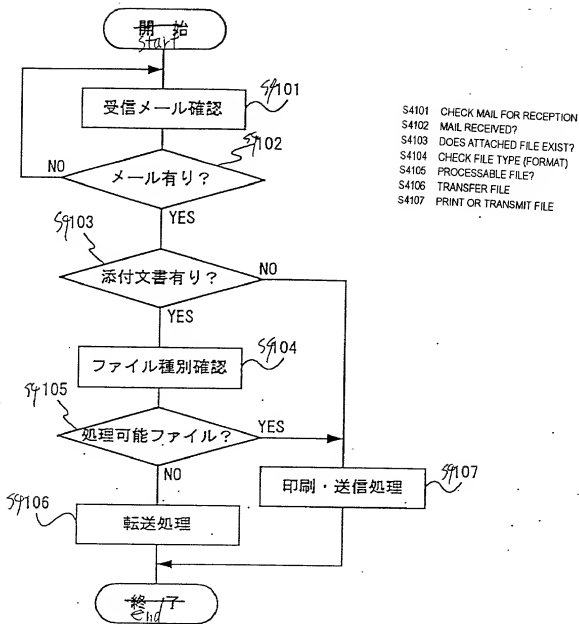
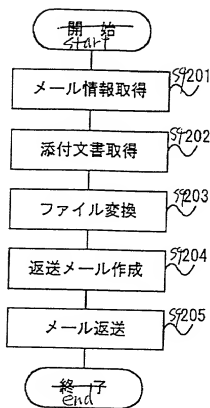


Fig. 19

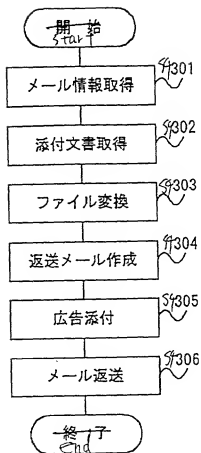


S4201 ACQUIRE MAIL INFORMATION  
 S4202 ACQUIRE ATTACHED DOCUMENT  
 S4203 EXECUTE FILE CONVERSION  
 S4204 PREPARE E-MAIL TO RETURN DOCUMENT  
 S4205 RETURN E-MAIL

Fig. 20

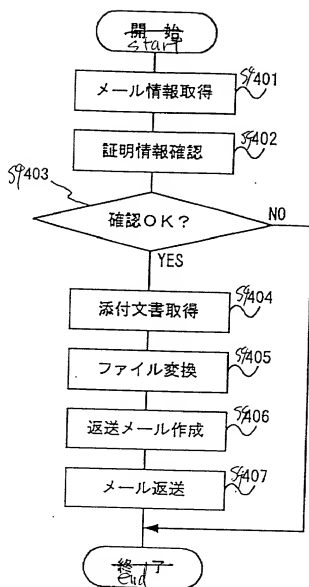
日 時 Date	発信元アドレス Transmitting Party address	ファイル種別 File type	ファイルサイズ File size
20001220082655	xxx@xxx.co.jp	○○Ver4.1	986
20001220091234	yyy@yyy.ne.jp	△△△	435
20001220091248	zzz@zzz.com	□□□	1,671
.	.	.	.
.	.	.	.

Fig. 21



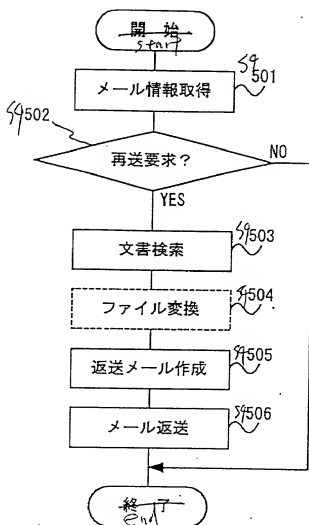
- S4301 ACQUIRE MAIL INFORMATION
- S4302 ACQUIRE ATTACHED DOCUMENT
- S4303 EXECUTE FILE CONVERSION
- S4304 PREPARE E-MAIL TO RETURN DOCUMENT
- S4305 ATTACH ADVERTISEMENT
- S4306 RETURN E-MAIL

Fig. 22.



- S4401 ACQUIRE MAIL INFORMATION
- S4402 CHECK CERTIFICATE INFORMATION
- S4403 VERIFICATION OK?
- S4404 ACQUIRE ATTACHED DOCUMENT
- S4405 EXECUTE FILE CONVERSION
- S4406 PREPARE E-MAIL TO RETURN DOCUMENT
- S4407 RETURN E-MAIL

Fig. 23



S4501 ACQUIRE MAIL INFORMATION  
 S4502 RESEND REQUEST?  
 S4503 RETRIEVE DOCUMENT  
 S4504 EXECUTE FILE CONVERSION  
 S4505 PREPARE E-MAIL TO RETURN DOCUMENT  
 S4506 RETURN E-MAIL

Fig. 24

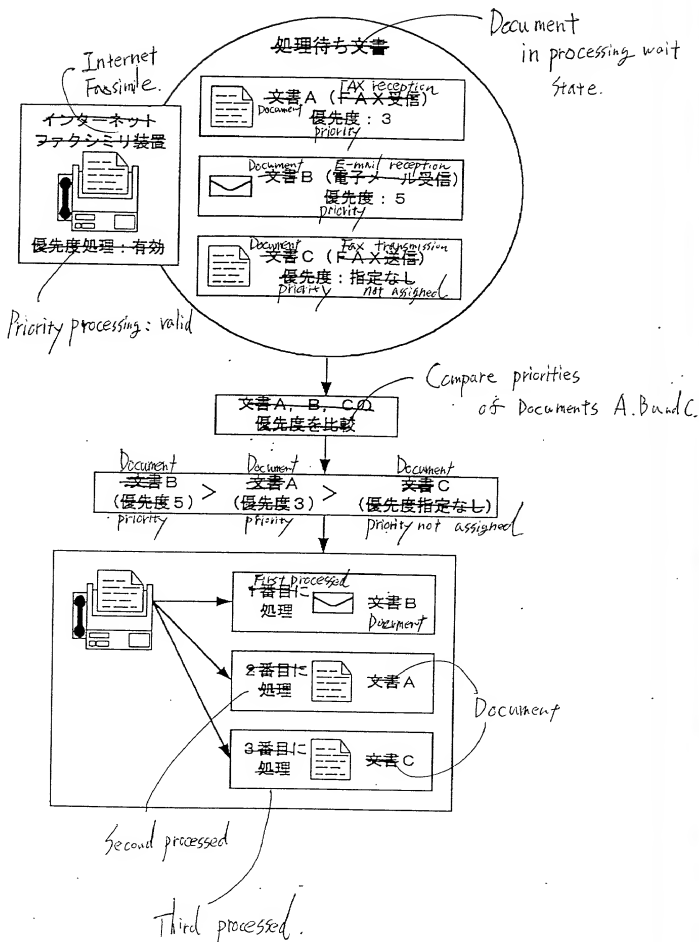
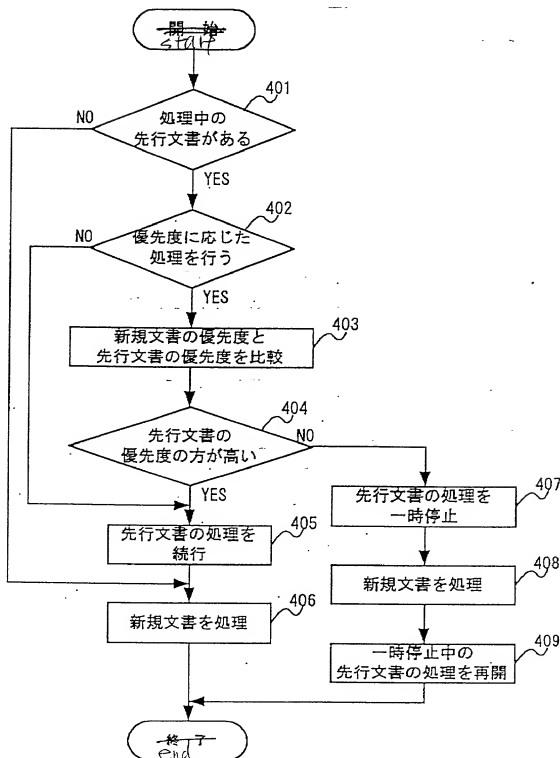


Fig. 25



- S5401 DOES PRECEDING DOCUMENT BEING PROCESSED EXIST?  
 S5402 IS PROCESSING RESPONSIVE TO PRIORITY TO BE PERFORMED?  
 S5403 COMPARE PRIORITY OF NEW DOCUMENT WITH THAT OF PRECEDING DOCUMENT  
 S5404 IS THE LATTER HIGHER THAN THE FORMER?  
 S5405 CONTINUE PROCESSING PRECEDING DOCUMENT  
 S5406 PROCESS NEW DOCUMENT  
 S5407 TEMPORARILY STOP PROCESSING PRECEDING DOCUMENT  
 S5408 PROCESS NEW DOCUMENT  
 S5409 RESTART PROCESSING PRECEDING DOCUMENT TEMPORARILY STOPPED



Fig. 26

機能設定 Function Setting

送信用紙 Transmitted Image quality

原稿の種類 Original type

送信濃度 Transmission Density

優先度転送 priority transfer

優先度処理 priority processing

優先度設定 Priority setting

前ページ previous page

次ページ next page

閉じる close

Fig. 27

宛先名 : 渋谷支店 Address : shibuya@ifax.co.jp

Destination Shibuya branch

前ページ Previous page

次ページ Next page

優先度設定 (1~5) priority setting

3

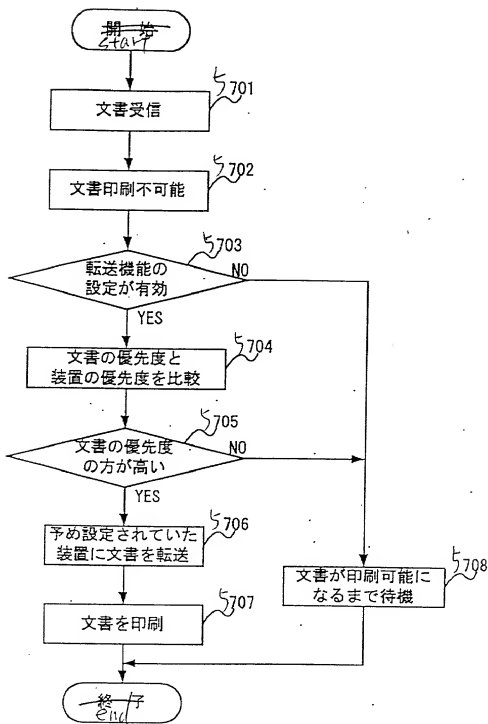
HIGH △

LOW ▽

スタート start

中止 cancel

Fig. 28



- S5701 RECEIVE DOCUMENT
- S5702 DOCUMENT CANNOT BE PRINTED
- S5703 IS TRANSFER FUNCTION SETTING EFFECTIVE?
- S5704 COMPARE PRIORITY OF DOCUMENT WITH PRIORITY OF INTERNET FAX
- S5705 IS THE FORMER HIGHER THAN THE LATTER?
- S5706 TRANSFER DOCUMENT TO PRESET INTERNET FAX
- S5707 PRINT DOCUMENT
- S5708 WAIT UNTIL IT IS MADE POSSIBLE TO PRINT DOCUMENT

Fig. 29

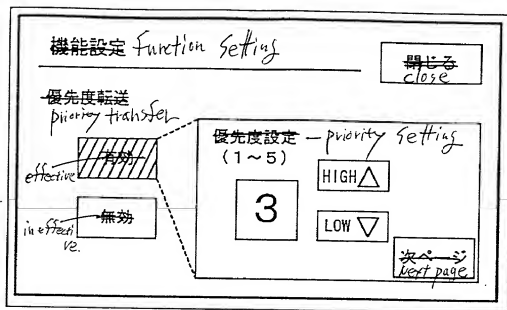


Fig. 30

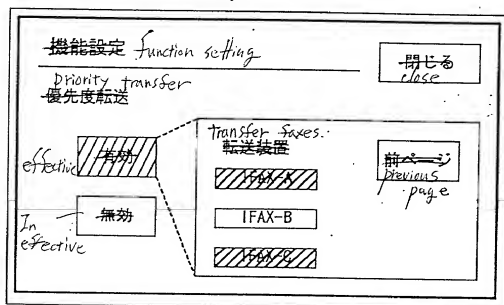


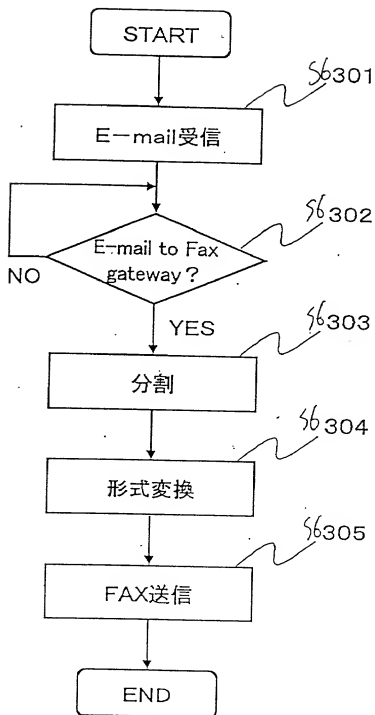
Fig.31

機能設定 <i>function setting</i>	閉じる <i>close</i>
優先度転送 <i>priority transfer</i>	
<input type="checkbox"/> 有効 <i>effective</i>	
<input checked="" type="checkbox"/> 無効 <i>ineffective</i>	

Fig.32

機能設定 <i>function setting</i>	閉じる <i>close</i>
優先度転送 <i>priority transfer</i>	
優先度 <i>priority</i> : 3	
転送装置: IFAX-A, IFAX-C	
transfer faxes	

Fig. 33



S6301 RECEIVE E-MAIL  
S6302 E-MAIL TO FAX GATEWAY?  
S6303 DIVIDE  
S6304 EXECUTE FORMAT CONVERSION  
S6305 EXECUTE FAX TRANSMISSION

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Fig. 34

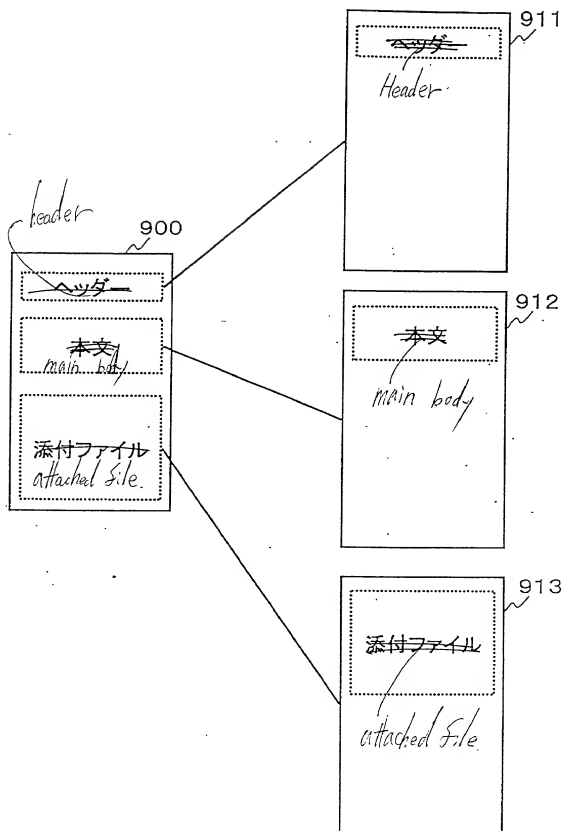
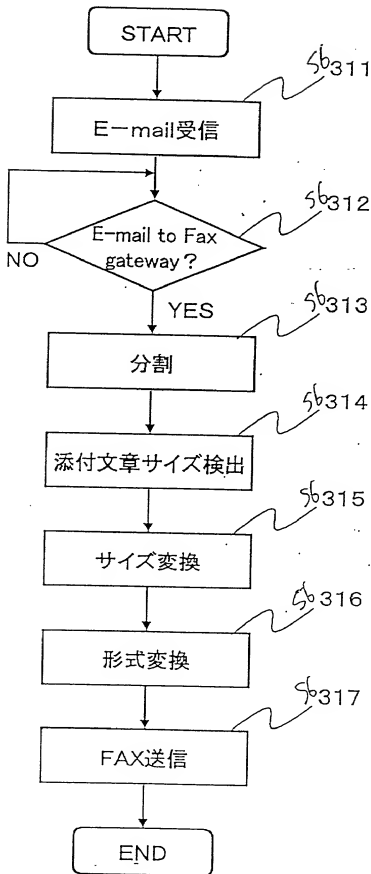


Fig. 35



S6311 RECEIVE E-MAIL  
S6312 E-MAIL TO FAX GATEWAY?  
S6313 DIVIDE  
S6314 DETECT ATTACHED DOCUMENT SIZE  
S6315 EXECUTE SIZE CONVERSION  
S6316 EXECUTE FORMAT CONVERSION  
S6317 EXECUTE FAX TRANSMISSION

Fig. 36

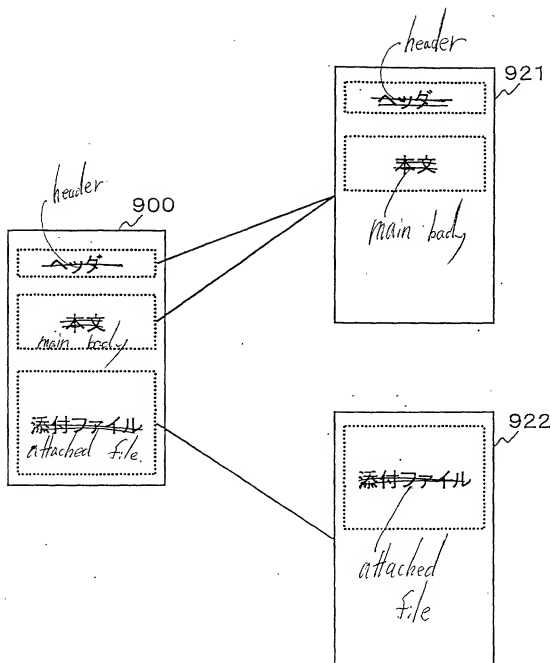




Fig. 37

09987672 111501

- S6321 RECEIVE E-MAIL
- S6322 E-MAIL TO FAX GATEWAY?
- S6323 COUNT THE NUMBER OF LINES
- S6324 ONE PAGE?
- S6325 DIVIDE AS THE SAME PAGE
- S6326 DIVIDE AS DIFFERENT PAGES
- S6327 EXECUTE FORMAT CONVERSION
- S6328 EXECUTE FAX TRANSMISSION

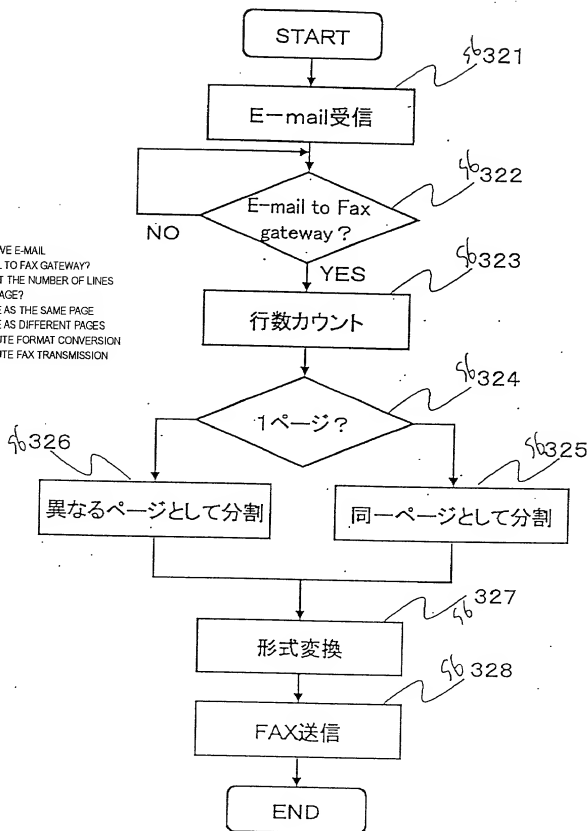


Fig. 38

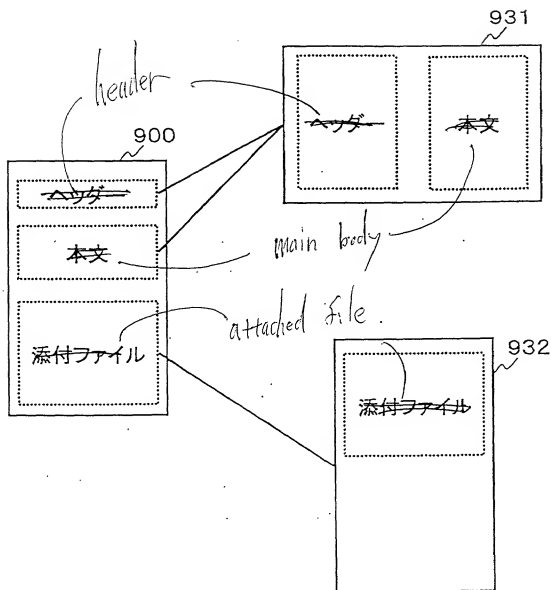
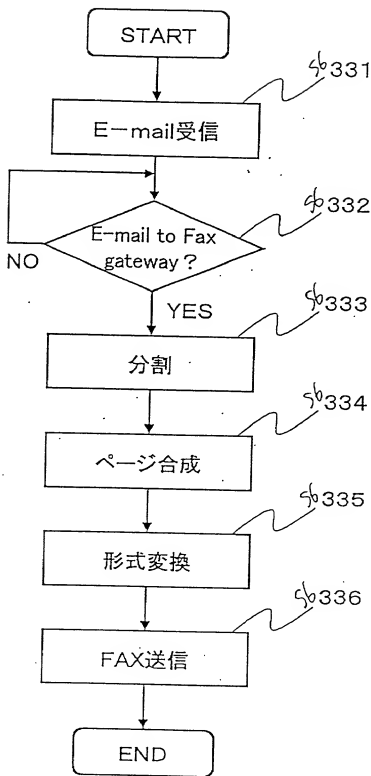


Fig. 39



S6331 RECEIVE E-MAIL  
 S6332 E-MAIL TO FAX GATEWAY?  
 S6333 DIVIDE  
 S6334 MERGE INTO ONE PAGE  
 S6335 EXECUTE FORMAT CONVERSION  
 S6336 EXECUTE FAX TRANSMISSION

Fig. 40

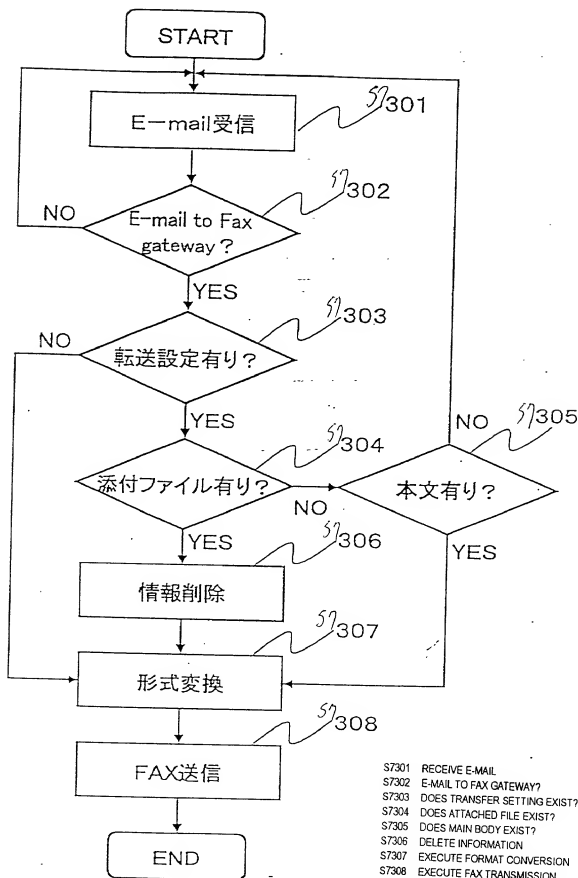
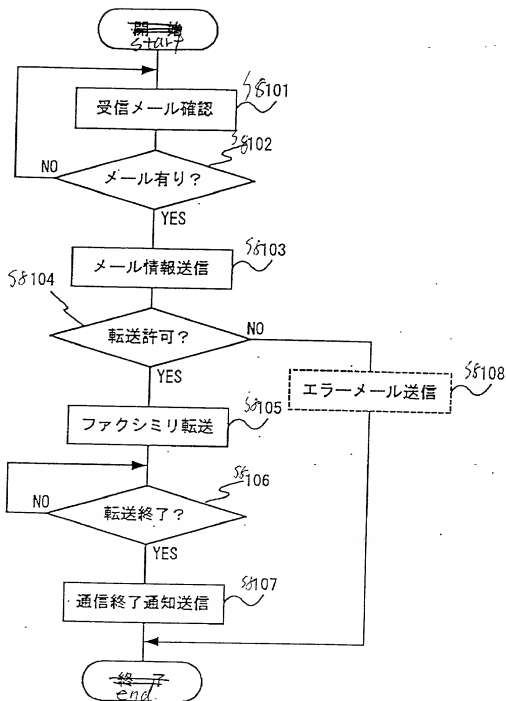
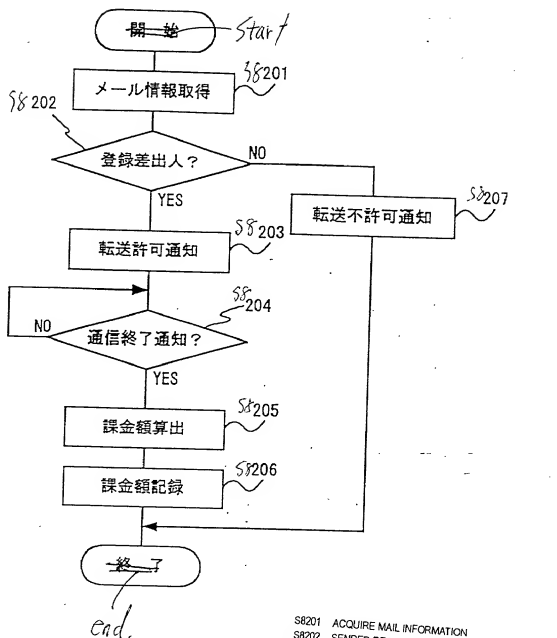


Fig. 41



- S8101 CHECK WHETHER OR NOT E-MAIL IS RECEIVED
- S8102 E-MAIL RECEIVED?
- S8103 TRANSMIT MAIL INFORMATION
- S8104 TRANSFER PERMITTED?
- S8105 TRANSFER BY FAX
- S8106 END OF TRANSFER?
- S8107 SEND COMMUNICATION END NOTIFICATION
- S8108 SEND ERROR MAIL

Fig. 42

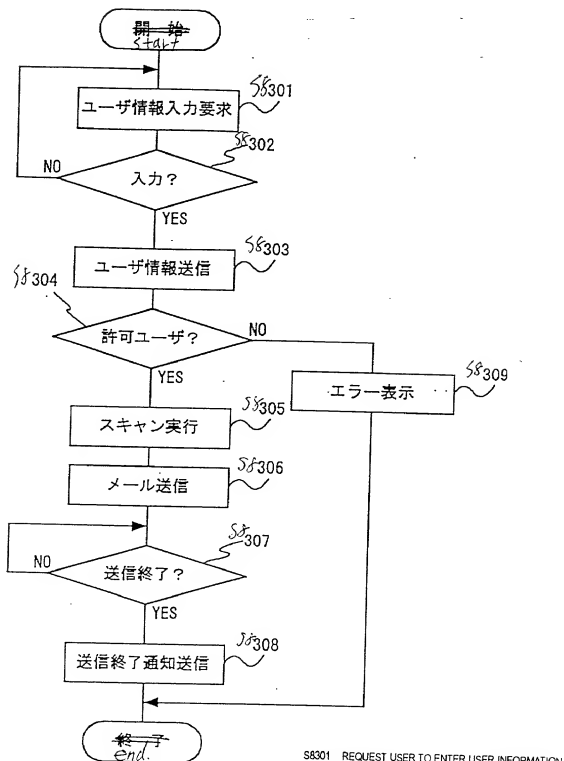


- S8201 ACQUIRE MAIL INFORMATION
- S8202 SENDER REGISTERED?
- S8203 SEND TRANSFER PERMISSION NOTIFICATION
- S8204 COMMUNICATION END NOTIFICATION RECEIVED?
- S8205 CALCULATE CHARGE AMOUNT
- S8206 RECORD CHARGE AMOUNT
- S8207 SEND TRANSFER DISAPPROVAL NOTIFICATION

Fig. 43

着出人 Sender	メールアドレス Mail Address	署名 Signature	転送経路 Transfer route	料金額 Charge amount
〇〇 〇〇	xxx@xxx.co.jp	不要 not required	.....	*****
		要 required	上記以外 except the above	
	yyy@yyy.ne.jp	不要 not required	.....	
×× ××	zzz@xxx.co.jp	不要 not required	.....	*****
		要 required	上記以外 except the above	
	zzz@yyy.ne.jp	不要 not required	.....	
⋮	⋮	⋮	⋮	⋮

Fig. 44



- S8301 REQUEST USER TO ENTER USER INFORMATION
- S8302 ENTERED?
- S8303 TRANSMIT USER INFORMATION
- S8304 PERMITTED USER?
- S8305 SCAN
- S8306 TRANSMIT E-MAIL
- S8307 END OF TRANSMISSION?
- S8308 TRANSMIT TRANSMISSION END NOTIFICATION
- S8309 DISPLAY ERROR



Fig. 45

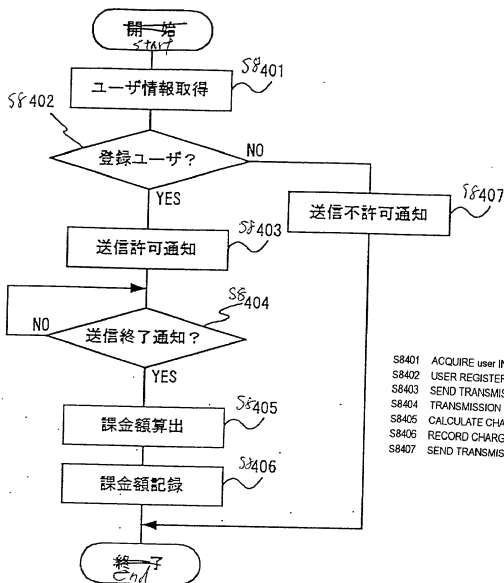


Fig. 46

ユーザ名 User name	ユーザID user ID	パスワード password	課金額 charging amount
〇〇 〇〇	XXX	*****	*****
×× ××	ZZZ	*****	*****
⋮	⋮	⋮	⋮